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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/554,116	10/21/2005	Arthur H. Hartog	101.0122	4663
50258 7590 04/23/2007 SCHLUMBERGER TECHNOLOGY CORPORATION 14910 AIRLINE ROAD ROSHARON, TX 77583			EXAMINER	
			VAUGHN, MEGANN E	
			ART UNIT	PAPER NUMBER
			2859	
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
2 MON	THS	04/23/2007 PAPER		PER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
	·	10/554,116	HARTOG, ARTHUR H.			
	Office Action Summary	Examiner	Art Unit			
,	·	Megann E. Vaughn	2859			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISING of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 66(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 21 Oc	<u>ctober 2005</u> .				
<i>'</i> —	This action is FINAL . 2b) ☐ This action is non-final.					
3)🖂	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5)⊠ 6)□ 7)⊠	Claim(s) <u>1-35</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) <u>1-33</u> is/are allowed. Claim(s) is/are rejected. Claim(s) <u>34 and 35</u> is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
Applicati	on Papers	:	•			
10)⊠	The specification is objected to by the Examiner The drawing(s) filed on <u>21 October 2005</u> is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Example 1.	a)⊠ accepted or b)⊡ objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
a)(Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive i (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachmen	tie)	•				
1) Notice 2) Notice 3) Inform	e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

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DETAILED ACTION

1. This application is in condition for allowance except for the following formal matters:

- 2. Claims 4-15 and 19-33 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot depend from any other multiple dependent claim. See MPEP § 608.01(n).
- 3. Claims 34 and 35 are objected to because of the following informalities: Claims 34 and 35 are omnibus type claims and should be cancelled. Appropriate correction is required.

Prosecution on the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

Allowable Subject Matter

4. Claims 1-33 are allowed.

The following is an examiner's statement of reasons for allowance:

Claims 1-15 are allowable over the prior art of record because the prior art of record does not teach or disclose a method of using an optical fibre to obtain a distributed measurement of a parameter of interest comprising generating a synthetic output signal from the second output signal and the fourth output signal therefrom and

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generating a final output signal indicative of the parameter of interest by normalizing the first output signal to the geometric mean of the synthetic output signal and the third output signal, in combination with the remaining limitations of the claims.

Claims 16-33 are allowable over the prior art of record because the prior art of record does not teach or disclose an apparatus for obtaining a distributed measurement of a parameter of interest comprising a signal processor operable to generate a synthetic output signal from the second output signal and the fourth output signal and to generate a final output signal indicative of the parameter of interest by normalizing the first output signal to the geometric mean of the synthetic output signal and the third output signal, in combination with the remaining limitations of the claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- 1. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Sai (US 5765948), Farhadiroushan et al (US 2006/0210269), Wada (US 5217306), Fredin et al (US 2003/0021528), and Sai et al (US 5449233).
- 2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Megann E. Vaughn whose telephone number is 571-272-8927. The examiner can normally be reached on 8 am- 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego Gutierrez can be reached on 571-272-2245. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MEV Patent Examiner Art Unit 2859 4/16/2007

> Diego Gutierrez Supervisory Patent Examiner Technology Center 2800

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